

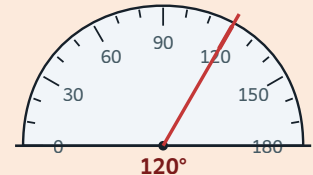
Drawing angles with a protractor

WHAT THIS LESSON TEACHES

To draw a given angle: draw the **base line** first, mark the **vertex**, place the protractor's centre on the vertex with the 0° line along the base, then **mark a dot** at the required degree and join from the vertex.

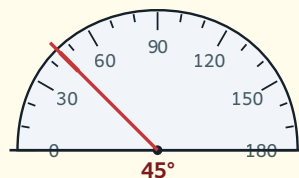
→ **Drawing 60°** : count 60° from the 0° line, mark a dot, join from the vertex through the dot.

→ **Drawing 135°** (obtuse): count past 90° to 135° ; the line slopes back over the vertex.



MODEL THIS ON THE BOARD

DRAWING A 45° ANGLE



- 1 Draw a straight base line and mark a **vertex point** on it.
- 2 Place the protractor so its centre cross is on the vertex and the 0° line runs along the base line.
- 3 Find 45° on the scale that starts at 0° and make a small mark.
- 4 Lift the protractor and join the vertex to the mark with a ruler — that's your **45° angle**.

ANSWER KEY

W1: 30° is acute

W2: 121°

Q1: 57°

Q2: 47° is acute

Q3: 84°

Q4: 84° is acute

EXTENSION SHEET · STRETCH ANSWERS

S1: 307° is reflex

S2: 84°

S3: 85° is acute

S4: 98°

S5: 69°